## SEQUENCE LISTING

```
<110> Gaiger, Alexander
     Cheever, Martin A.
<120> COMPOSITIONS AND METHODS FOR WT1 SPECIFIC IMMUNOTHERAPY
<130> 210121.465
<140> US
<141> 1998-09-30
<160> 320
<170> PatentIn Ver. 2.0
<210> 1
<211> 17
<212> PRT
<213> Homo sapiens
<400> 1
Arg Asp Leu Asn Ala Leu Leu Pro Ala Val\Pro Ser Leu Gly Gly
Gly
<210> 2
<211> 23
<212> PRT
<213> Homo sapiens
<400> 2
Pro Ser Gln Ala Ser Ser Ala Pro Asn Ala Pro
                                     10
  1
Tyr Leu Pro Ser Cys Leu Glu
             20
<210> 3
 <211> 23
 <212> PRT
 <213> Mus musculus
 Pro Ser Gln Ala Sef Ser Gly Gln Ala Arg Met Phe Pro Asn Ala Pro
 Tyr Leu Pro Ser Cys Leu Glu
```

20

<pre>&lt;210&gt; 4 &lt;211&gt; 19 &lt;212&gt; PRT &lt;213&gt; Homo sapiens  &lt;400&gt; 4 Gly Ala Thr Leu Lys Gly Val Ala Ala Gly Ser Ser Ser Ser Val Lys</pre>	
Trp Thr Glu	
<210> 5 <211> 22 <212> DNA <213> Homo sapiens	
<400> 5 gagagtcaga cttgaaagca gt	22
<210> 6 <211> 20 <212> DNA <213> Homo sapiens	
<400> 6 ctgagcctca gcaaatgggc	20
<210> 7 <211> 27 <212> DNA <213> Homo sapiens	
<400> 7 gagcatgcat gggctccgac gtgcggg	27
<210> 8 <211> 25 <212> DNA <213> Homo sapiens	
<400> 8 ggggtaccca ctgaacggtc cccga	25
<210> 9 <211> 18 <212> DNA <213> Mus musculus	
<400> 9 tccgagccgc acctcatg	18
<210> 10	

<212> DNA <213> Mus musculus	
<400> 10	
gcctgggatg ctggactg	18
<210> 11	
<211> 27	
<212> DNA	
<213> Mus musculus	
<400> 11	27
gagcatgcga tgggttccga cgtgcgg	21
<210> 12	
<211> 29	
<212> DNA	
<213> Mus musculus	
<400> 12	29
ggggtacete aaagegeeac gtggagttt	23
<210> 13	
<211> 17	
<212> PRT	
<213> Mus musculus	
<400> 13	
Arg Asp Leu Asn Ala Leu Leu Pro Ala Val Ser Ser Leu Gly Gly	
5 10 15	
Gly	
<210> 14	
<211> 19	
<212> PRT	
<213> Mus musculus	
<400> 14	
Gly Ala Thr Leu Lys Gly Met Ala Ala Gly Ser Ser Ser Val Lys	
1 5 10 15	
Trp Thr Glu	
<210> 15	
<211> 15 <212> PRT	
<212> PRT <213> Homo sapiens	
<pre>&lt;400&gt; 15 Arg Tle His Thr His Gly Val Phe Arg Gly Ile Gln Asp Val Arg</pre>	

15

```
<210> 16 <211> 15
```

<212> PRT

<213> Mus musculus

<400> 16

Arg Ile His Thr His Gly Val Phe Arg Gly Ile Gln Asp Val Arg

1 5 10 15

<210> 17

<211> 14

<212> PRT

<213> Mus musculus

<400> 17

Val Arg Arg Val Ser Gly Val Ala Pro Thr Leu Val Arg Ser 1 5 10

<210> 18

<211> 14

<212> PRT

<213> Homo sapiens

<400> 18

Val Arg Arg Val Pro Gly Val Ala Pro Thr Leu Val Arg Ser

<210> 19

<211> 15

<212> PRT

<213> Homo sapiens

<400> 19

Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His His
1 5 10 15

<210> 20

<211> 15

<212> PRT

<213> Mus musculus

<400> 20

Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His His

1 5 10 15

<210> 21

<211> 21

<212> DNA	
<213> Mus musculus	
(22)	
<400> 21	
cccaggctgc aataagagat	. a 21
<210> 22	
<211> 21	
<212> DNA	
<213> Mus musculus	•
<400> 22	
atgttgtgat ggcggaccaa	ı t 21
<210> 23	
<211> 20	
<212> DNA	
<213> Homo sapiens	
-	
<400> 23	
gtgggggcc ccaggcacca	20
3 3322 2	
<210> 24	
<211> 24	
<212> DNA	
<213> Homo sapiens	
<400> 24	
<400> 24 gtccttaatg ctacgcacga	a tttc 24
	a tttc 24
	a tttc 24
gtccttaatg ctacgcacga	a tttc 24
gtccttaatg ctacgcacga <210> 25 <211> 21 <212> DNA	a tttc 24
gtccttaatg ctacgcacga <210> 25 <211> 21	a tttc 24
gtccttaatg ctacgcacga <210> 25 <211> 21 <212> DNA <213> Homo sapiens	a tttc 24
gtccttaatg ctacgcacga <210> 25 <211> 21 <212> DNA <213> Homo sapiens <400> 25	
gtccttaatg ctacgcacga <210> 25 <211> 21 <212> DNA <213> Homo sapiens	
gtccttaatg ctacgcacga <210> 25 <211> 21 <212> DNA <213> Homo sapiens <400> 25 ggcatctgag accagtgaga	
gtccttaatg ctacgcacga <210> 25 <211> 21 <212> DNA <213> Homo sapiens <400> 25 ggcatctgag accagtgaga <210> 26	
gtccttaatg ctacgcacga <210> 25 <211> 21 <212> DNA <213> Homo sapiens <400> 25 ggcatctgag accagtgaga <210> 26 <211> 21	
<pre>gtccttaatg ctacgcacga &lt;210&gt; 25 &lt;211&gt; 21 &lt;212&gt; DNA &lt;213&gt; Homo sapiens &lt;400&gt; 25 ggcatctgag accagtgaga &lt;210&gt; 26 &lt;211&gt; 21 &lt;212&gt; DNA</pre>	
gtccttaatg ctacgcacga <210> 25 <211> 21 <212> DNA <213> Homo sapiens <400> 25 ggcatctgag accagtgaga <210> 26 <211> 21	
<pre>gtccttaatg ctacgcacga &lt;210&gt; 25 &lt;211&gt; 21 &lt;212&gt; DNA &lt;213&gt; Homo sapiens &lt;400&gt; 25 ggcatctgag accagtgaga &lt;210&gt; 26 &lt;211&gt; 21 &lt;212&gt; DNA &lt;213&gt; Homo sapiens</pre>	
<pre>gtccttaatg ctacgcacga &lt;210&gt; 25 &lt;211&gt; 21 &lt;212&gt; DNA &lt;213&gt; Homo sapiens &lt;400&gt; 25 ggcatctgag accagtgaga &lt;210&gt; 26 &lt;211&gt; 21 &lt;212&gt; DNA &lt;213&gt; Homo sapiens</pre>	a a 21
<pre>gtccttaatg ctacgcacga &lt;210&gt; 25 &lt;211&gt; 21 &lt;212&gt; DNA &lt;213&gt; Homo sapiens &lt;400&gt; 25 ggcatctgag accagtgaga &lt;210&gt; 26 &lt;211&gt; 21 &lt;212&gt; DNA &lt;213&gt; Homo sapiens</pre>	a a 21
<pre>gtccttaatg ctacgcacga &lt;210&gt; 25 &lt;211&gt; 21 &lt;212&gt; DNA &lt;213&gt; Homo sapiens &lt;400&gt; 25 ggcatctgag accagtgaga &lt;210&gt; 26 &lt;211&gt; 21 &lt;212&gt; DNA &lt;213&gt; Homo sapiens &lt;400&gt; 26 gcgtgtcccac ttacagatgagagagagagagagagagagagagagagaga</pre>	a a 21
<pre>gtccttaatg ctacgcacga &lt;210&gt; 25 &lt;211&gt; 21 &lt;212&gt; DNA &lt;213&gt; Homo sapiens  &lt;400&gt; 25 ggcatctgag accagtgaga &lt;210&gt; 26 &lt;211&gt; 21 &lt;212&gt; DNA &lt;213&gt; Homo sapiens  &lt;400&gt; 26 gctgtcccac ttacagatgaga &lt;210&gt; 26 &lt;210&gt; 27</pre>	a a 21
<pre>gtccttaatg ctacgcacga &lt;210&gt; 25 &lt;211&gt; 21 &lt;212&gt; DNA &lt;213&gt; Homo sapiens  &lt;400&gt; 25 ggcatctgag accagtgaga &lt;210&gt; 26 &lt;211&gt; 21 &lt;212&gt; DNA &lt;213&gt; Homo sapiens  &lt;400&gt; 26 gctgtcccac ttacagatgagagagagagagagagagagagagagagaga</pre>	a a 21
<pre>gtccttaatg ctacgcacga &lt;210&gt; 25 &lt;211&gt; 21 &lt;212&gt; DNA &lt;213&gt; Homo sapiens  &lt;400&gt; 25 ggcatctgag accagtgaga &lt;210&gt; 26 &lt;211&gt; 21 &lt;212&gt; DNA &lt;213&gt; Homo sapiens  &lt;400&gt; 26 gctgtcccac ttacagatgaga &lt;210&gt; 27 &lt;211&gt; 21 &lt;212&gt; DNA</pre>	a a 21
<pre>gtccttaatg ctacgcacga &lt;210&gt; 25 &lt;211&gt; 21 &lt;212&gt; DNA &lt;213&gt; Homo sapiens  &lt;400&gt; 25 ggcatctgag accagtgaga &lt;210&gt; 26 &lt;211&gt; 21 &lt;212&gt; DNA &lt;213&gt; Homo sapiens  &lt;400&gt; 26 gctgtcccac ttacagatgagagagagagagagagagagagagagagaga</pre>	a a 21
<pre>gtccttaatg ctacgcacga &lt;210&gt; 25 &lt;211&gt; 21 &lt;212&gt; DNA &lt;213&gt; Homo sapiens  &lt;400&gt; 25 ggcatctgag accagtgaga &lt;210&gt; 26 &lt;211&gt; 21 &lt;212&gt; DNA &lt;213&gt; Homo sapiens  &lt;400&gt; 26 gctgtcccac ttacagatg &lt;210&gt; 27 &lt;211&gt; 21 &lt;212&gt; DNA &lt;213&gt; Homo sapiens</pre>	a a 21
<pre>gtccttaatg ctacgcacga &lt;210&gt; 25 &lt;211&gt; 21 &lt;212&gt; DNA &lt;213&gt; Homo sapiens  &lt;400&gt; 25 ggcatctgag accagtgaga &lt;210&gt; 26 &lt;211&gt; 21 &lt;212&gt; DNA &lt;213&gt; Homo sapiens  &lt;400&gt; 26 gctgtcccac ttacagatg &lt;210&gt; 27 &lt;211&gt; 21 &lt;212&gt; DNA &lt;213&gt; Homo sapiens</pre>	a a 21 c a 22
<pre>gtccttaatg ctacgcacga &lt;210&gt; 25 &lt;211&gt; 21 &lt;212&gt; DNA &lt;213&gt; Homo sapiens  &lt;400&gt; 25 ggcatctgag accagtgaga &lt;210&gt; 26 &lt;211&gt; 21 &lt;212&gt; DNA &lt;213&gt; Homo sapiens  &lt;400&gt; 26 gctgtcccac ttacagatg &lt;210&gt; 27 &lt;211&gt; 21 &lt;212&gt; DNA &lt;213&gt; Homo sapiens</pre>	a a 21 c a 22

```
<211> 9
<212> PRT
<213> Homo sapiens
<400> 28
Ala Ala Gly Ser Ser Ser Ser Val Lys
<210> 29
<211> 9
<212> PRT
<213> Homo sapiens
<400> 29
Ala Ala Gln Phe Pro Asn His Ser Phe
<210> 30
<211> 9
<212> PRT
<213> Homo sapiens
<400> 30
Ala Glu Pro His Glu Glu Gln Cys Leu
  1
<210> 31
<211> 9
<212> PRT
<213> Homo sapiens
Ala Gly Ala Cys Arg Tyr Gly Pro Phe
  1
<210> 32
<211> 9
<212> PRT
<213> Homo sapiens
 <400> 32
Ala Gly Ser Ser Ser Ser Val Lys Trp
  1
 <210> 33
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 33
 Ala Ile Arg Asn Gln Gly Tyr Ser Thr
```

```
<210> 34
<211> 9
<212> PRT
<213> Homo sapiens
<400> 34
Ala Leu Leu Pro Ala Val Pro Ser Leu
<210> 35
<211> 9
<212> PRT
<213> Homo sapiens
<400> 35
Ala Leu Leu Pro Ala Val Ser Ser Leu
                 5
 1
<210> 36
<211> 9
<212> PRT
<213> Homo sapiens
<400> 36
Ala Gln Phe Pro Asn His Ser Phe Lys
                  5
  1
<210> 37
<211> 9
<212> PRT
<213> Homo sapiens
 <400> 37
Ala Gln Trp Ala Pro Val Leu Asp Phe
 <210> 38
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 38
 Ala Arg Met Phe Pro Asn Ala Pro Tyr
 <210> 39
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 39
 Ala Arg Ser Asp Glu Leu Val Arg His
```

```
1
<210> 40
<211> 9
<212> PRT
<213> Homo sapiens
<400> 40
Ala Ser Ser Gly Gln Ala Arg Met Phe
<210> 41
<211> 9
<212> PRT
<213> Homo sapiens
<400> 41
Ala Tyr Gly Ser Leu Gly Gly Pro Ala
<210> 42
<211> 9
<212> PRT
<213> Homo sapiens
<400> 42
Ala Tyr Pro Gly Cys Asn Lys Arg Tyr
<210> 43
<211> 9
<212> PRT
<213> Homo sapiens
<400> 43
Cys Ala Leu Pro Val Ser Gly Ala Ala
<210> 44
<211> 9
<212> PRT
<213> Homo sapiens
<400> 44
Cys Ala Tyr Pro Gly Cys Asn Lys Arg
                 5
<210> 45
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 45
```

```
Cys His Thr Pro Thr Asp Ser Cys Thr
<210> 46
<211> 9
<212> PRT
<213> Homo sapiens
<400> 46
Cys Lys Thr Cys Gln Arg Lys Phe Ser
<210> 47
<211> 9
<212> PRT
<213> Homo sapiens
<400> 47
Cys Leu Glu Ser Gln Pro Ala Ile Arg
1
<210> 48
<211> 9
<212> PRT
<213> Homo sapiens
<400> 48
Cys Leu Ser Ala Phe Thr Val His Phe
                 5
 1
<210> 49
<211> 9
<212> PRT
<213> Homo sapiens
<400> 49
Cys Met Thr Trp Asn Gln Met Asn Leu
<210> 50
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 50
 Cys Arg Trp Pro Ser Cys Gln Lys Lys
 <210> 51
 <211> 9
 <212> PRT
 <213> Homo sapiens
```

```
<400> 51
Cys Arg Tyr Gly Pro Phe Gly Pro Pro
                 5
 1
<210> 52
<211> 9
<212> PRT
<213> Homo sapiens
<400> 52
Cys Thr Gly Ser Gln Ala Leu Leu Leu
<210> 53
<211> 9
<212> PRT
<213> Homo sapiens
<400> 53
Asp Glu Leu Val Arg His His Asn Met
               5
 1
<210> 54
<211> 9
<212> PRT
<213> Homo sapiens
<400> 54
Asp Phe Ala Pro Pro Gly Ala Ser Ala
 1
<210> 55
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 55
 Asp Phe Lys Asp Cys Glu Arg Arg Phe
 <210> 56
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 56
 Asp Gly Thr Pro Ser Tyr Gly His Thr
 <210> 57
 <211> 9
 <212> PRT
 <213> Homo sapiens
```

```
<400> 57
Asp His Leu Lys Thr His Thr Arg Thr
<210> 58
<211> 9
<212> PRT
<213> Homo sapiens
<400> 58
Asp Leu Asn Ala Leu Leu Pro Ala Val
<210> 59
<211> 9
<212> PRT
<213> Homo sapiens
<400> 59
Asp Pro Met Gly Gln Gln Gly Ser Leu
 1
<210> 60
<211> 9
<212> PRT
<213> Homo sapiens
<400> 60
Asp Gln Leu Lys Arg His Gln Arg Arg
                 5
 1
 <210> 61
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 61
 Asp Ser Cys Thr Gly Ser Gln Ala Leu
 <210> 62
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 62
 Asp Val Arg Asp Leu Asn Ala Leu Leu
 <210> 63
 <211> 9
```

<212> PRT

```
<213> Homo sapiens
<400> 63
Asp Val Arg Arg Val Pro Gly Val Ala
                  5
 1
<210> 64
<211> 9
<212> PRT
<213> Homo sapiens
<400> 64
Glu Asp Pro Met Gly Gln Gln Gly Ser
                 5
<210> 65
<211> 9
<212> PRT
<213> Homo sapiens
<400> 65
Glu Glu Gln Cys Leu Ser Ala Phe Thr
  1
<210> 66
<211> 9
<212> PRT
<213> Homo sapiens
<400> 66
Glu Lys Pro Tyr Gln Cys Asp Phe Lys
 1
                  5
<210> 67
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 67
 Glu Lys Arg Pro Phe Met Cys Ala Tyr
 <210> 68
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 68
 Glu Pro His Glu Glu Gln Cys Leu Ser
 <210> 69
 <211> 9
```

```
<212> PRT
<213> Homo sapiens
<400> 69
Glu Gln Cys Leu Ser Ala Phe Thr Val
<210> 70
<211> 9
<212> PRT
<213> Homo sapiens
<400> 70
Glu Ser Asp Asn His Thr Ala Pro Ile
<210> 71
<211> 9
<212> PRT
<213> Homo sapiens
<400> 71
Glu Ser Asp Asn His Thr Thr Pro Ile
 1
<210> 72
<211> 9
<212> PRT
<213> Homo sapiens
<400> 72
Glu Ser Gln Pro Ala Ile Arg Asn Gln
                 5
 1
 <210> 73
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 73
 Glu Thr Ser Glu Lys Arg Pro Phe Met
                  5
   1
 <210> 74
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 74
 Phe Ala Pro Pro Gly Ala Ser Ala Tyr
                   5
 <210> 75
```

```
<211> 9
<212> PRT
<213> Homo sapiens
<400> 75
Phe Ala Arg Ser Asp Glu Leu Val Arg
                 5
<210> 76
<211> 9
<212> PRT
<213> Homo sapiens
<400> 76
Phe Gly Pro Pro Pro Ser Gln Ala
                 5
<210> 77
<211> 9
<212> PRT
<213> Homo sapiens
<400> 77
Phe Lys Asp Cys Glu Arg Arg Phe Ser
<210> 78
<211> 9
<212> PRT
<213> Homo sapiens
<400> 78
Phe Lys Leu Ser His Leu Gln Met His
  1
<210> 79
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 79
 Phe Pro Asn Ala Pro Tyr Leu Pro Ser
 <210> 80
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 80
 Phe Gln Cys Lys Thr Cys Gln Arg Lys
```

```
<210> 81
<211> 9
<212> PRT
<213> Homo sapiens
<400> 81
Phe Arg Gly Ile Gln Asp Val Arg Arg
<210> 82
<211> 9
<212> PRT
<213> Homo sapiens
<400> 82
Phe Ser Gly Gln Phe Thr Gly Thr Ala
<210> 83
<211> 9
<212> PRT
<213> Homo sapiens
<400> 83
Phe Ser Arg Ser Asp Gln Leu Lys Arg
  1
                  5
 <210> 84
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 84
 Phe Thr Gly Thr Ala Gly Ala Cys Arg
 <210> 85
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 85
 Phe Thr Val His Phe Ser Gly Gln Phe
   1
 <210> 86
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 86
 Gly Ala Ala Gln Trp Ala Pro Val Leu
```

```
1
                  5
<210> 87
<211> 9
<212> PRT
<213> Homo sapiens
<400> 87
Gly Ala Glu Pro His Glu Glu Gln Cys
<210> 88
<211> 9
<212> PRT
<213> Homo sapiens
<400> 88
Gly Ala Thr Leu Lys Gly Val Ala Ala
              5
  1
<210> 89
<211> 9
<212> PRT
<213> Homo sapiens
<400> 89
Gly Cys Ala Leu Pro Val Ser Gly Ala
 <210> 90
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 90
 Gly Cys Asn Lys Arg Tyr Phe Lys Leu
 <210> 91
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 91
 Gly Glu Lys Pro Tyr Gln Cys Asp Phe
 <210> 92
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 92
```

```
Gly Gly Gly Cys Ala Leu Pro Val
 1
<210> 93
<211> 9
<212> PRT
<213> Homo sapiens
<400> 93
Gly Gly Pro Ala Pro Pro Pro Ala Pro
<210> 94
<211> 9
<212> PRT
<213> Homo sapiens
<400> 94
Gly His Thr Pro Ser His His Ala Ala
 1 5
<210> 95
<211> 9
<212> PRT
<213> Homo sapiens
<400> 95
Gly Lys Thr Ser Glu Lys Pro Phe Ser
                  5
 1
<210> 96
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 96
 Gly Pro Phe Gly Pro Pro Pro Ser
 <210> 97
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 97
 Gly Pro Pro Pro Pro Ser Gln Ala Ser
  1
 <210> 98
 <211> 9
 <212> PRT
```

<213> Homo sapiens

```
<400> 98
Gly Gln Ala Arg Met Phe Pro Asn Ala
<210> 99
<211> 9
<212> PRT
<213> Homo sapiens
<400> 99
Gly Gln Phe Thr Gly Thr Ala Gly Ala
<210> 100
<211> 9
<212> PRT
<213> Homo sapiens
<400> 100
Gly Gln Ser Asn His Ser Thr Gly Tyr
                  5
  1
<210> 101
<211> 9
<212> PRT
<213> Homo sapiens
<400> 101
Gly Ser Asp Val Arg Asp Leu Asn Ala
<210> 102
<211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 102
 Gly Ser Gln Ala Leu Leu Leu Arg Thr
  1
 <210> 103
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 103
 Gly Val Phe Arg Gly Ile Gln Asp Val
 <210> 104
 <211> 9
 <212> PRT
 <213> Homo sapiens
```

```
<400> 104
Gly Val Lys Pro Phe Gln Cys Lys Thr
<210> 105
<211> 9
<212> PRT
<213> Homo sapiens
<400> 105
Gly Tyr Glu Ser Asp Asn His Thr Ala
<210> 106
<211> 9
<212> PRT
<213> Homo sapiens
<400> 106
Gly Tyr Glu Ser Asp Asn His Thr Thr
            5
 1
<210> 107
<211> 9
<212> PRT
<213> Homo sapiens
<400> 107
His Glu Glu Gln Cys Leu Ser Ala Phe
                  5
  1
 <210> 108
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 108
 His His Asn Met His Gln Arg Asn Met
 <210> 109
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 109
 His Gln Arg Arg His Thr Gly Val Lys
 <210> 110
 <211> 9
 <212> PRT
```

```
<213> Homo sapiens
<400> 110
His Ser Phe Lys His Glu Asp Pro Met
<210> 111
<211> 9
<212> PRT
<213> Homo sapiens
<400> 111
His Ser Arg Lys His Thr Gly Glu Lys
  1
<210> 112
<211> 9
<212> PRT
<213> Homo sapiens
<400> 112
His Thr Gly Glu Lys Pro Tyr Gln Cys
  1
<210> 113
<211> 9
<212> PRT
<213> Homo sapiens
<400> 113
His Thr His Gly Val Phe Arg Gly Ile
 <210> 114
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 114
 His Thr Arg Thr His Thr Gly Lys Thr
 <210> 115
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 115
 His Thr Thr Pro Ile Leu Cys Gly Ala
 <210> 116
 <211> 9
```

```
<212> PRT
<213> Homo sapiens
<400> 116
Ile Leu Cys Gly Ala Gln Tyr Arg Ile
<210> 117
<211> 9
<212> PRT
<213> Homo sapiens
<400> 117
Ile Arg Asn Gln Gly Tyr Ser Thr Val
<210> 118
<211> 9
<212> PRT
<213> Homo sapiens
<400> 118
Lys Asp Cys Glu Arg Arg Phe Ser Arg
<210> 119
<211> 9
<212> PRT
<213> Homo sapiens
<400> 119
Lys Phe Ala Arg Ser Asp Glu Leu Val
 1
 <210> 120
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 120
 Lys Phe Ser Arg Ser Asp His Leu Lys
  1
 <210> 121
 <211> 9
 <212> PRT
 <213> Homo sapiens
 Lys His Glu Asp Pro Met Gly Gln Gln
 <210> 122
```

```
<211> 9
<212> PRT
<213> Homo sapiens
<400> 122
Lys Lys Phe Ala Arg Ser Asp Glu Leu
<210> 123
<211> 9
<212> PRT
<213> Homo sapiens
<400> 123
Lys Pro Phe Ser Cys Arg Trp Pro Ser
 1
<210> 124
<211> 9
<212> PRT
<213> Homo sapiens
<400> 124
Lys Pro Tyr Gln Cys Asp Phe Lys Asp
  1
<210> 125
<211> 9
<212> PRT
<213> Homo sapiens
<400> 125
Lys Gln Glu Pro Ser Trp Gly Gly Ala
 <210> 126
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 126
 Lys Arg His Gln Arg Arg His Thr Gly
  1
 <210> 127
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 127
 Lys Arg Tyr Phe Lys Leu Ser His Leu
                   5
```

```
<210> 128
<211> 9
<212> PRT
<213> Homo sapiens
<400> 128
Lys Thr Cys Gln Arg Lys Phe Ser Arg
<210> 129
<211> 9
<212> PRT
<213> Homo sapiens
<400> 129
Lys Thr Ser Glu Lys Pro Phe Ser Cys
 1
<210> 130
<211> 9
<212> PRT
<213> Homo sapiens
<400> 130
Leu Asp Phe Ala Pro Pro Gly Ala Ser
  1
                 5
<210> 131
<211> 9
<212> PRT
 <213> Homo sapiens
 <400> 131
Leu Glu Cys Met Thr Trp Asn Gln Met
 <210> 132
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 132
 Leu Glu Ser Gln Pro Ala Ile Arg Asn
 <210> 133
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 133
 Leu Gly Ala Thr Leu Lys Gly Val Ala
```

```
5
 1
<210> 134
<211> 9
<212> PRT
<213> Homo sapiens
<400> 134
Leu Gly Gly Gly Gly Cys Ala Leu
<210> 135
<211> 9
<212> PRT
<213> Homo sapiens
<400> 135
Leu Lys Gly Val Ala Ala Gly Ser Ser
<210> 136
<211> 9
<212> PRT
<213> Homo sapiens
<400> 136
Leu Lys Arg His Gln Arg Arg His Thr
  1
<210> 137
<211> 9
<212> PRT
<213> Homo sapiens
<400> 137
Leu Lys Thr His Thr Arg Thr His Thr
 <210> 138
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 138
 Leu Pro Val Ser Gly Ala Ala Gln Trp
 <210> 139
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 139
```

```
Leu Gln Met His Ser Arg Lys His Thr
<210> 140
<211> 9
<212> PRT
<213> Homo sapiens
<400> 140
Leu Arg Thr Pro Tyr Ser Ser Asp Asn
<210> 141
<211> 9
<212> PRT
<213> Homo sapiens
<400> 141
Leu Ser His Leu Gln Met His Ser Arg
1
<210> 142
<211> 9
<212> PRT
<213> Homo sapiens
<400> 142
Met Cys Ala Tyr Pro Gly Cys Asn Lys
                5
 1
<210> 143
<211> 9
<212> PRT
<213> Homo sapiens
<400> 143
Met His Gln Arg Asn Met Thr Lys Leu
  1
<210> 144
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 144
 Asn Ala Pro Tyr Leu Pro Ser Cys Leu
 1
 <210> 145
 <211> 9
 <212> PRT
 <213> Homo sapiens
```

```
<400> 145
Asn Lys Arg Tyr Phe Lys Leu Ser His
<210> 146
<211> 9
<212> PRT
<213> Homo sapiens
<400> 146
Asn Leu Gly Ala Thr Leu Lys Gly Val
<210> 147
<211> 9
<212> PRT
<213> Homo sapiens
<400> 147
Asn Leu Tyr Gln Met Thr Ser Gln Leu
1
<210> 148
<211> 9
<212> PRT
<213> Homo sapiens
<400> 148
Asn Met His Gln Arg Asn Met Thr Lys
<210> 149
<211> 9
<212> PRT
<213> Homo sapiens
<400> 149
Asn Met Thr Lys Leu Gln Leu Ala Leu
<210> 150
<211> 9
<212> PRT
<213> Homo sapiens
<400> 150
Asn Gln Gly Tyr Ser Thr Val Thr Phe
<210> 151
<211> 9
<212> PRT
<213> Homo sapiens
```

```
<400> 151
Asn Gln Met Asn Leu Gly Ala Thr Leu
<210> 152
<211> 9
<212> PRT
<213> Homo sapiens
<400> 152
Pro Ala Ile Arg Asn Gln Gly Tyr Ser
<210> 153
<211> 9
<212> PRT
<213> Homo sapiens
<400> 153
Pro Gly Ala Ser Ala Tyr Gly Ser Leu
<210> 154
<211> 9
<212> PRT
<213> Homo sapiens
<400> 154
Pro His Glu Glu Gln Cys Leu Ser Ala
                  5
  1
<210> 155
<211> 9
<212> PRT
<213> Homo sapiens
<400> 155
Pro Ile Leu Cys Gly Ala Gln Tyr Arg
<210> 156
<211> 9
<212> PRT
<213> Homo sapiens
<400> 156
Pro Pro Pro His Ser Phe Ile Lys
 <210> 157
 <211> 9
 <212> PRT
```

```
<213> Homo sapiens
<400> 157
Pro Pro Pro Pro His Ser Phe Ile
                 5
<210> 158
<211> 9
<212> PRT
<213> Homo sapiens
<400> 158
Pro Pro Pro Pro Pro His Ser Phe
                 5
<210> 159
<211> 9
<212> PRT
<213> Homo sapiens
<400> 159
Pro Ser Cys Gln Lys Lys Phe Ala Arg
                 5
<210> 160
<211> 9
<212> PRT
<213> Homo sapiens
<400> 160
Gln Ala Leu Leu Leu Arg Thr Pro Tyr
 1
 <210> 161
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 161
 Gln Ala Ser Ser Gly Gln Ala Arg Met
 <210> 162
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 162
 Gln Cys Asp Phe Lys Asp Cys Glu Arg
 <210> 163
 <211> 9
```

```
<212> PRT
<213> Homo sapiens
<400> 163
Gln Cys Lys Thr Cys Gln Arg Lys Phe
<210> 164
<211> 9
<212> PRT
<213> Homo sapiens
<400> 164
Gln Asp Val Arg Arg Val Pro Gly Val
<210> 165
<211> 9
<212> PRT
<213> Homo sapiens
<400> 165
Gln Phe Thr Gly Thr Ala Gly Ala Cys
<210> 166
<211> 9
<212> PRT
<213> Homo sapiens
<400> 166
Gln Gly Ser Leu Gly Glu Gln Gln Tyr
  1
                   5
<210> 167
<211> 9
<212> PRT
<213> Homo sapiens
Gln Leu Glu Cys Met Thr Trp Asn Gln
  1
 <210> 168
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 168
 Gln Met Asn Leu Gly Ala Thr Leu Lys
 <210> 169
```

```
<211> 9
<212> PRT
<213> Homo sapiens
<400> 169
Gln Met Thr Ser Gln Leu Glu Cys Met
<210> 170
<211> 9
<212> PRT
<213> Homo sapiens
<400> 170
Gln Pro Ala Ile Arg Asn Gln Gly Tyr
                  5
  1
<210> 171
<211> 9
<212> PRT
<213> Homo sapiens
<400> 171
Gln Gln Tyr Ser Val Pro Pro Pro Val
                  5
  1
<210> 172
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 172
 Gln Arg Lys Phe Ser Arg Ser Asp His
 <210> 173
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 173
 Gln Arg Asn Met Thr Lys Leu Gln Leu
 <210> 174
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 174
 Gln Trp Ala Pro Val Leu Asp Phe Ala
```

```
<210> 175
<211> 9
<212> PRT
<213> Homo sapiens
<400> 175
Gln Tyr Arg Ile His Thr His Gly Val
<210> 176
<211> 9
<212> PRT
<213> Homo sapiens
<400> 176
Gln Tyr Ser Val Pro Pro Pro Val Tyr
  1
                  5
<210> 177
<211> 9
<212> PRT
<213> Homo sapiens
<400> 177
Arg Asp Leu Asn Ala Leu Leu Pro Ala
  1
<210> 178
<211> 9
 <212> PRT
<213> Homo sapiens
 <400> 178
Arg Phe Ser Arg Ser Asp Gln Leu Lys
  1
 <210> 179
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 179
 Arg Gly Ile Gln Asp Val Arg Arg Val
 <210> 180
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 180
 Arg His His Asn Met His Gln Arg Asn
```

```
1
<210> 181
<211> 9
<212> PRT
<213> Homo sapiens
<400> 181
Arg His Gln Arg Arg His Thr Gly Val
<210> 182
<211> 9
<212> PRT
<213> Homo sapiens
<400> 182
Arg Ile His Thr His Gly Val Phe Arg
 1
<210> 183
<211> 9
<212> PRT
<213> Homo sapiens
<400> 183
Arg Lys Phe Ser Arg Ser Asp His Leu
<210> 184
<211> 9
<212> PRT
<213> Homo sapiens
<400> 184
Arg Lys His Thr Gly Glu Lys Pro Tyr
<210> 185
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 185
 Arg Met Phe Pro Asn Ala Pro Tyr Leu
  1
 <210> 186
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 186
```

```
Arg Asn Met Thr Lys Leu Gln Leu Ala
<210> 187
<211> 9
<212> PRT
<213> Homo sapiens
<400> 187
Arg Arg Phe Ser Arg Ser Asp Gln Leu
<210> 188
<211> 9
<212> PRT
<213> Homo sapiens
<400> 188
Arg Arg His Thr Gly Val Lys Pro Phe
                 5
1
<210> 189
<211> 9
<212> PRT
<213> Homo sapiens
<400> 189
Arg Arg Val Pro Gly Val Ala Pro Thr
                5
 1
<210> 190
<211> 9
<212> PRT
<213> Homo sapiens
<400> 190
Arg Ser Ala Ser Glu Thr Ser Glu Lys
<210> 191
<211> 9
<212> PRT
<213> Homo sapiens
 <400> 191
Arg Ser Asp Glu Leu Val Arg His His
 1
 <210> 192
 <211> 9
 <212> PRT
 <213> Homo sapiens
```

```
<400> 192
Arg Ser Asp His Leu Lys Thr His Thr
<210> 193
<211> 9
<212> PRT
<213> Homo sapiens
<400> 193
Arg Ser Asp Gln Leu Lys Arg His Gln
<210> 194
<211> 9
<212> PRT
<213> Homo sapiens
<400> 194
Arg Thr Pro Tyr Ser Ser Asp Asn Leu
                  5
<210> 195
<211> 9
<212> PRT
<213> Homo sapiens
<400> 195
Arg Val Pro Gly Val Ala Pro Thr Leu
 1
 <210> 196
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 196
 Arg Trp Pro Ser Cys Gln Lys Lys Phe
 <210> 197
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 197
 Ser Ala Ser Glu Thr Ser Glu Lys Arg
 <210> 198
 <211> 9
 <212> PRT
```

<213> Homo sapiens

```
<400> 198
Ser Cys Leu Glu Ser Gln Pro Ala Ile
<210> 199
<211> 9
<212> PRT
<213> Homo sapiens
<400> 199
Ser Cys Leu Glu Ser Gln Pro Thr Ile
<210> 200
<211> 9
<212> PRT
<213> Homo sapiens
<400> 200
Ser Cys Gln Lys Lys Phe Ala Arg Ser
 1 5
<210> 201
<211> 9
<212> PRT
<213> Homo sapiens
<400> 201
Ser Cys Arg Trp Pro Ser Cys Gln Lys
                 5
 1
<210> 202
<211> 9
<212> PRT
<213> Homo sapiens
<400> 202
Ser Cys Thr Gly Ser Gln Ala Leu Leu
  1
 <210> 203
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 203
 Ser Asp Glu Leu Val Arg His His Asn
 <210> 204
 <211> 9
```

<212> PRT

```
<213> Homo sapiens
<400> 204
Ser Asp Asn His Thr Thr Pro Ile Leu
  1
<210> 205
<211> 9
<212> PRT
<213> Homo sapiens
<400> 205
Ser Asp Asn Leu Tyr Gln Met Thr Ser
<210> 206
<211> 9
<212> PRT
<213> Homo sapiens
<400> 206
Ser Asp Val Arg Asp Leu Asn Ala Leu
<210> 207
<211> 9
<212> PRT
<213> Homo sapiens
 <400> 207
 Ser Glu Lys Pro Phe Ser Cys Arg Trp
 <210> 208
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 208
 Ser Glu Lys Arg Pro Phe Met Cys Ala
 <210> 209
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 209
 Ser Glu Thr Ser Glu Lys Arg Pro Phe
 <210> 210
 <211> 9
```

```
<212> PRT
<213> Homo sapiens
<400> 210
Ser Phe Ile Lys Gln Glu Pro Ser Trp
<210> 211
<211> 9
<212> PRT
<213> Homo sapiens
<400> 211
Ser Gly Ala Ala Gln Trp Ala Pro Val
<210> 212
<211> 9
<212> PRT
<213> Homo sapiens
<400> 212
Ser Gly Gln Ala Arg Met Phe Pro Asn
<210> 213
<211> 9
<212> PRT
<213> Homo sapiens
 <400> 213
 Ser His His Ala Ala Gln Phe Pro Asn
  1
 <210> 214
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 214
 Ser Leu Gly Glu Gln Gln Tyr Ser Val
 <210> 215
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 215
 Ser Leu Gly Gly Gly Gly Cys Ala
   1
 <210> 216
```

```
<211> 9
<212> PRT
<213> Homo sapiens
<400> 216
Ser Gln Ala Ser Ser Gly Gln Ala Arg
<210> 217
<211> 9
<212> PRT
<213> Homo sapiens
<400> 217
Ser Ser Asp Asn Leu Tyr Gln Met Thr
<210> 218
<211> 9
<212> PRT
<213> Homo sapiens
<400> 218
Ser Val Pro Pro Pro Val Tyr Gly Cys
                  5
<210> 219
<211> 9
<212> PRT
<213> Homo sapiens
 <400> 219
 Thr Cys Gln Arg Lys Phe Ser Arg Ser
  1
 <210> 220
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 220
 Thr Asp Ser Cys Thr Gly Ser Gln Ala
 <210> 221
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 221
 Thr Glu Gly Gln Ser Asn His Ser Thr
```

```
<210> 222
<211> 9
<212> PRT
<213> Homo sapiens
<400> 222
Thr Gly Lys Thr Ser Glu Lys Pro Phe
<210> 223
<211> 9
<212> PRT
<213> Homo sapiens
<400> 223
Thr Gly Ser Gln Ala Leu Leu Leu Arg
<210> 224
<211> 9
<212> PRT
<213> Homo sapiens
<400> 224
Thr Gly Thr Ala Gly Ala Cys Arg Tyr
  1
<210> 225
<211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 225
 Thr Gly Tyr Glu Ser Asp Asn His Thr
 <210> 226
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 226
 Thr Leu Val Arg Ser Ala Ser Glu Thr
 <210> 227
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 227
 Thr Pro Ile Leu Cys Gly Ala Gln Tyr
```

```
1
<210> 228
<211> 9
<212> PRT
<213> Homo sapiens
<400> 228
Thr Pro Ser His His Ala Ala Gln Phe
<210> 229
<211> 9
<212> PRT
<213> Homo sapiens
<400> 229
Thr Pro Ser Tyr Gly His Thr Pro Ser
<210> 230
<211> 9
<212> PRT
<213> Homo sapiens
<400> 230
Thr Pro Thr Asp Ser Cys Thr Gly Ser
 1
<210> 231
<211> 9
<212> PRT
<213> Homo sapiens
<400> 231
Thr Pro Tyr Ser Ser Asp Asn Leu Tyr
 <210> 232
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 232
 Thr Ser Glu Lys Pro Phe Ser Cys Arg
 <210> 233
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 233
```

```
Thr Ser Glu Lys Arg Pro Phe Met Cys
<210> 234
<211> 9
<212> PRT
<213> Homo sapiens
<400> 234
Thr Ser Gln Leu Glu Cys Met Thr Trp
           5
<210> 235
<211> 9
<212> PRT
<213> Homo sapiens
<400> 235
Thr Val His Phe Ser Gly Gln Phe Thr
 1 5
<210> 236
<211> 9
<212> PRT
<213> Homo sapiens
<400> 236
Val Ala Ala Gly Ser Ser Ser Val
                  5
 1
<210> 237
<211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 237
 Val Ala Pro Thr Leu Val Arg Ser Ala
 1
 <210> 238
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 238
 Val Phe Arg Gly Ile Gln Asp Val Arg
 <210> 239
 <211> 9
 <212> PRT
 <213> Homo sapiens
```

```
<400> 239
Val Lys Pro Phe Gln Cys Lys Thr Cys
<210> 240
<211> 9
<212> PRT
<213> Homo sapiens
<400> 240
Val Lys Trp Thr Glu Gly Gln Ser Asn
<210> 241
<211> 9
<212> PRT
<213> Homo sapiens
<400> 241
Val Leu Asp Phe Ala Pro Pro Gly Ala
  1
<210> 242
<211> 9
<212> PRT
<213> Homo sapiens
<400> 242
Val Pro Gly Val Ala Pro Thr Leu Val
 <210> 243
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 243
 Val Arg His His Asn Met His Gln Arg
 <210> 244
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 244
 Val Thr Phe Asp Gly Thr Pro Ser Tyr
 <210> 245
 <211> 9
 <212> PRT
```

<213> Homo sapiens

```
<400> 245
Trp Asn Gln Met Asn Leu Gly Ala Thr
<210> 246
<211> 9
<212> PRT
<213> Homo sapiens
<400> 246
Trp Pro Ser Cys Gln Lys Lys Phe Ala
<210> 247
<211> 9
<212> PRT
<213> Homo sapiens
<400> 247
Trp Thr Glu Gly Gln Ser Asn His Ser
 1
<210> 248
<211> 9
<212> PRT
<213> Homo sapiens
<400> 248
Tyr Phe Lys Leu Ser His Leu Gln Met
 1
            5
 <210> 249
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 249
 Tyr Gly His Thr Pro Ser His His Ala
 1
 <210> 250
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 250
 Tyr Pro Gly Cys Asn Lys Arg Tyr Phe
 <210> 251
 <211> 9
```

<212> PRT

```
<213> Homo sapiens
<400> 251
Tyr Gln Met Thr Ser Gln Leu Glu Cys
<210> 252
<211> 9
<212> PRT
<213> Homo sapiens
<400> 252
Tyr Arg Ile His Thr His Gly Val Phe
<210> 253
<211> 9
<212> PRT
<213> Homo sapiens
<400> 253
Tyr Ser Ser Asp Asn Leu Tyr Gln Met
 1
<210> 254
<211> 9
<212> PRT
<213> Mus musculus
<400> 254
Ala Glu Pro His Glu Glu Gln Cys Leu
 1
<210> 255
<211> 9
<212> PRT
<213> Mus musculus
 <400> 255
Ala Leu Leu Pro Ala Val Ser Ser Leu
 <210> 256
 <211> 9
 <212> PRT
 <213> Mus musculus
 <400> 256
 Ala Tyr Gly Ser Leu Gly Gly Pro Ala
 <210> 257
 <211> 9
```

```
<212> PRT
<213> Mus musculus
<400> 257
Ala Tyr Pro Gly Cys Asn Lys Arg Tyr
<210> 258
<211> 9
<212> PRT
<213> Mus musculus
<400> 258
Cys Met Thr Trp Asn Gln Met Asn Leu
                5
<210> 259
<211> 9
<212> PRT
<213> Mus musculus
<400> 259
Cys Thr Gly Ser Gln Ala Leu Leu Leu
<210> 260
<211> 9
<212> PRT
<213> Mus musculus
<400> 260
Asp Gly Ala Pro Ser Tyr Gly His Thr
 1 5
<210> 261
<211> 9
<212> PRT
<213> Mus musculus
<400> 261
Asp Leu Asn Ala Leu Leu Pro Ala Val
 1
 <210> 262
 <211> 9
 <212> PRT
 <213> Mus musculus
 <400> 262
 Asp Pro Met Gly Gln Gln Gly Ser Leu
 <210> 263
```

```
<211> 9
<212> PRT
<213> Mus musculus
<400> 263
Asp Ser Cys Thr Gly Ser Gln Ala Leu
                  5
<210> 264
<211> 9
<212> PRT
<213> Mus musculus
<400> 264
Asp Val Arg Asp Leu Asn Ala Leu Leu
<210> 265
<211> 9
<212> PRT
<213> Mus musculus
<400> 265
Glu Gln Cys Leu Ser Ala Phe Thr Leu
 1
<210> 266
<211> 9
<212> PRT
<213> Mus musculus
<400> 266
Glu Ser Asp Asn His Thr Ala Pro Ile
                 5
<210> 267
<211> 9
<212> PRT
<213> Mus musculus
<400> 267
Phe Pro Asn Ala Pro Tyr Leu Pro Ser
<210> 268
<211> 9
<212> PRT
<213> Mus musculus
<400> 268
Gly Cys Asn Lys Arg Tyr Phe Lys Leu
  1
                 5
```

```
<210> 269
<211> 9
<212> PRT
<213> Mus musculus
<400> 269
Gly Gln Ala Arg Met Phe Pro Asn Ala
<210> 270
<211> 9
<212> PRT
<213> Mus musculus
<400> 270
Gly Val Phe Arg Gly Ile Gln Asp Val
                  5
<210> 271
<211> 9
<212> PRT
<213> Mus musculus
<400> 271
Gly Tyr Glu Ser Asp Asn His Thr Ala
 1
                 5
<210> 272
<211> 9
<212> PRT
<213> Mus musculus
<400> 272
His Ser Phe Lys His Glu Asp Pro Met
  1
<210> 273
 <211> 9
 <212> PRT
 <213> Mus musculus
 <400> 273
 His Thr His Gly Val Phe Arg Gly Ile
 <210> 274
 <211> 9
 <212> PRT
 <213> Mus musculus
 <400> 274
 Ile Leu Cys Gly Ala Gln Tyr Arg Ile
```

```
1
<210> 275
<211> 9
<212> PRT
<213> Mus musculus
<400> 275
Lys Phe Ala Arg Ser Asp Glu Leu Val
<210> 276
<211> 9
<212> PRT
<213> Mus musculus
<400> 276
Lys Arg Tyr Phe Lys Leu Ser His Leu
<210> 277
<211> 9
<212> PRT
<213> Mus musculus
<400> 277
Lys Thr Ser Glu Lys Pro Phe Ser Cys
 1
<210> 278
<211> 9
<212> PRT
<213> Mus musculus
<400> 278
Leu Glu Cys Met Thr Trp Asn Gln Met
                  5
 <210> 279
 <211> 9
 <212> PRT
 <213> Mus musculus
 <400> 279
 Leu Gly Gly Gly Gly Cys Gly Leu
 <210> 280
 <211> 9
 <212> PRT
 <213> Mus musculus
 <400> 280
```

```
Leu Gln Met His Ser Arg Lys His Thr
<210> 281
<211> 9
<212> PRT
<213> Mus musculus
<400> 281
Met His Gln Arg Asn Met Thr Lys Leu
<210> 282
<211> 9
<212> PRT
<213> Mus musculus
<400> 282
Asn Ala Pro Tyr Leu Pro Ser Cys Leu
 1 5
<210> 283
<211> 9
<212> PRT
<213> Mus musculus
<400> 283
Asn Leu Gly Ala Thr Leu Lys Gly Met
 1
<210> 284
<211> 9
<212> PRT
<213> Mus musculus
 <400> 284
Asn Leu Tyr Gln Met Thr Ser Gln Leu
 <210> 285
 <211> 9
 <212> PRT
 <213> Mus musculus
 <400> 285
 Asn Met Thr Lys Leu His Val Ala Leu
  1
 <210> 286
 <211> 9
 <212> PRT
 <213> Mus musculus
```

```
<400> 286
Asn Gln Met Asn Leu Gly Ala Thr Leu
<210> 287
<211> 9
<212> PRT
<213> Mus musculus
<400> 287
Pro Gly Ala Ser Ala Tyr Gly Ser Leu
<210> 288
<211> 9
<212> PRT
<213> Mus musculus
<400> 288
Gln Ala Ser Ser Gly Gln Ala Arg Met
                ,5
 1
<210> 289
<211> 9
<212> PRT
<213> Mus musculus
<400> 289
Gln Met Thr Ser Gln Leu Glu Cys Met
<210> 290
 <211> 9
 <212> PRT
 <213> Mus musculus
 <400> 290
 Gln Gln Tyr Ser Val Pro Pro Pro Val
 <210> 291
 <211> 9
 <212> PRT
 <213> Mus musculus
 <400> 291
 Gln Tyr Arg Ile His Thr His Gly Val
 <210> 292
 <211> 9
 <212> PRT
 <213> Mus musculus
```

```
<400> 292
Gln Tyr Ser Val Pro Pro Pro Val Tyr
<210> 293
<211> 9
<212> PRT
<213> Mus musculus
<400> 293
Arg Met Phe Pro Asn Ala Pro Tyr Leu
<210> 294
<211> 9
<212> PRT
<213> Mus musculus
<400> 294
Arg Thr Pro Tyr Ser Ser Asp Asn Leu
<210> 295
<211> 9
<212> PRT
<213> Mus musculus
<400> 295
Arg Val Ser Gly Val Ala Pro Thr Leu
                 5
 1
<210> 296
<211> 9
<212> PRT
<213> Mus musculus
<400> 296
Ser Cys Leu Glu Ser Gln Pro Thr Ile
 <210> 297
 <211> 9
 <212> PRT
 <213> Mus musculus
 Ser Cys Gln Lys Lys Phe Ala Arg Ser
 <210> 298
 <211> 9
```

<212> PRT

```
<213> Mus musculus
<400> 298
Ser Asp Val Arg Asp Leu Asn Ala Leu
                5
<210> 299
<211> 9
<212> PRT
<213> Mus musculus
<400> 299
Ser Leu Gly Glu Gln Gln Tyr Ser Val
<210> 300
<211> 9
<212> PRT
<213> Mus musculus
<400> 300
Thr Cys Gln Arg Lys Phe Ser Arg Ser
              5
<210> 301
<211> 9
<212> PRT
<213> Mus musculus
<400> 301
Thr Glu Gly Gln Ser Asn His Gly Ile
 1
<210> 302
<211> 9
<212> PRT
<213> Mus musculus
<400> 302
Thr Leu His Phe Ser Gly Gln Phe Thr
<210> 303
<211> 9
<212> PRT
<213> Mus musculus
<400> 303
Thr Leu Val Arg Ser Ala Ser Glu Thr
 <210> 304
 <211> 9
```

```
<212> PRT
<213> Mus musculus
<400> 304
Val Leu Asp Phe Ala Pro Pro Gly Ala
<210> 305
<211> 9
<212> PRT
<213> Mus musculus
<400> 305
Trp Asn Gln Met Asn Leu Gly Ala Thr
<210> 306
<211> 9
<212> PRT
<213> Mus musculus
<400> 306
Tyr Phe Lys Leu Ser His Leu Gln Met
 1
<210> 307
<211> 9
<212> PRT
<213> Mus musculus
<400> 307
Tyr Gln Met Thr Ser Gln Leu Glu Cys
                  5
<210> 308
<211> 9
<212> PRT
<213> Mus musculus
<400> 308
Tyr Ser Ser Asp Asn Leu Tyr Gln Met
 <210> 309
 <211> 6
 <212> PRT
 <213> Homo sapiens
 <400> 309
 Gly Ala Ala Gln Trp Ala
```

<210> 310

```
<211> 12
<212> PRT
<213> Homo sapiens
<400> 310
Ala Ser Ala Tyr Gly Ser Leu Gly Gly Pro Ala Pro
                  5
<210> 311
<211> 15
<212> PRT
<213> Homo sapiens
<400> 311
Ala Phe Thr Val His Phe Ser Gly Gln Phe Thr Gly Thr Ala Gly
                                      10
<210> 312
<211> 5
<212> PRT
<213> Homo sapiens
<400> 312
His Ala Ala Gln Phe
 1
<210> 313
 <211> 32
 <212> PRT
 <213> Homo sapiens
 <400> 313
Cys His Thr Pro Thr Asp Ser Cys Thr Gly Ser Gln Ala Leu Leu Leu
 Arg Thr Pro Tyr Ser Ser Asp Asn Leu Tyr Gln Met Thr Ser Gln Leu
                                  25
              20
 <210> 314
 <211> 32
 <212> PRT
 <213> Homo sapiens
 <400> 314
 Arg Ile His Thr His Gly Val Phe Arg Gly Ile Gln Asp Val Arg Arg
                                       10
 Val Pro Gly Val Ala Pro Thr Leu Val Arg Ser Ala Ser Glu Thr Ser
```

```
<210> 315
<211> 4
<212> PRT
<213> Homo sapiens
<400> 315
Arg Tyr Phe Lys
<210> 316
<211> 14
<212> PRT
<213> Homo sapiens
<400> 316
Glu Arg Arg Phe Ser Arg Ser Asp Gln Leu Lys Arg His Gln
                 5
<210> 317
<211> 22
<212> PRT
<213> Homo sapiens
<400> 317
Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys Thr His Thr Arg Thr
His Thr Gly Lys Thr Ser
              20
 <210> 318
 <211> 21
 <212> PRT
 <213> Homo sapiens
 <400> 318
 Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His His Asn
 Met His Gln Arg Asn
              20
 <210> 319
 <211> 449
 <212> PRT
```

## <213> Homo sapiens

<400	)> 31	L9						_	- 1 -	<b>7</b>	T 011	Dro	Δla	Val.	Pro
Met	Gly	Ser	Asp	Val	Arg	Asp	Leu	Asn	Ala	Leu	Leu	PLO	ліа	Val 15	
1				5					10						

Ser Leu Gly Gly Gly Gly Cys Ala Leu Pro Val Ser Gly Ala Ala 20 25 30

Gln Trp Ala Pro Val Leu Asp Phe Ala Pro Pro Gly Ala Ser Ala Tyr 35 40 45

Gly Ser Leu Gly Gly Pro Ala Pro Pro Pro Ala Pro Pro Pro Pro Pro 50 55 60

Pro Pro Pro Pro His Ser Phe Ile Lys Gln Glu Pro Ser Trp Gly Gly 65 70 75 80

Ala Glu Pro His Glu Glu Gln Cys Leu Ser Ala Phe Thr Val His Phe 85 90 95

Ser Gly Gln Phe Thr Gly Thr Ala Gly Ala Cys Arg Tyr Gly Pro Phe 100 105 110

Gly Pro Pro Pro Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe 115 120 125

Pro Asn Ala Pro Tyr Leu Pro Ser Cys Leu Glu Ser Gln Pro Ala Ile 130 135 140

Arg Asn Gln Gly Tyr Ser Thr Val Thr Phe Asp Gly Thr Pro Ser Tyr 145 150 155 160

Gly His Thr Pro Ser His His Ala Ala Gln Phe Pro Asn His Ser Phe 165 170 175

Lys His Glu Asp Pro Met Gly Gln Gln Gly Ser Leu Gly Glu Gln Gln 180 185 190

Tyr Ser Val Pro Pro Pro Val Tyr Gly Cys His Thr Pro Thr Asp Ser 195 200 205

Cys Thr Gly Ser Gln Ala Leu Leu Leu Arg Thr Pro Tyr Ser Ser Asp 210 215 220

Asn Leu Tyr Gln Met Thr Ser Gln Leu Glu Cys Met Thr Trp Asn Gln 225 230 235 240

Met Asn Leu Gly Ala Thr Leu Lys Gly Val Ala Ala Gly Ser Ser Ser 245 250 255

Ser Val Lys Trp Thr Glu Gly Gln Ser Asn His Ser Thr Gly Tyr Glu 260 265 270

Ser Asp Asn His Thr Thr Pro Ile Leu Cys Gly Ala Gln Tyr Arg Ile

275		280		285							
His Thr His Gly	Val Phe Ai	rg Gly Ile 95	Gln Asp Val	Arg Arg Val	Pro						
Gly Val Ala Pro	Thr Leu Va	al Arg Ser	Ala Ser Glu 315	Thr Ser Glu	Lys 320						
Arg Pro Phe Met	Cys Ala T	yr Pro Gly	Cys Asn Lys 330	Arg Tyr Phe 335	Lys						
Leu Ser His Leu 340		is Ser Arg 345	Lys His Thr	Gly Glu Lys 350	Pro						
Tyr Gln Cys Asp 355	Phe Lys A	sp Cys Glu 360	Arg Arg Phe	Ser Arg Ser 365	Asp						
Gln Leu Lys Aro		arg Arg His 75	Thr Gly Val	Lys Pro Phe	Gln						
Cys Lys Thr Cys	s Gln Arg I 390	ys Phe Ser	Arg Ser Asp 395	His Leu Lys	Thr 400						
His Thr Arg Th	r His Thr G 405	Gly Lys Thr	Ser Glu Lys 410	Pro Phe Ser 415	Cys						
Arg Trp Pro Se		Lys Lys Phe 425	Ala Arg Ser	Asp Glu Leu 430	val						
Arg His His As	n Met His (	Gln Arg Asn 440	Met Thr Lys	Leu Gln Leu 445	ı Ala						
Leu											
<210> 320 <211> 449 <212> PRT <213> Mus musculus											
<400> 320 Met Gly Ser As 1	sp Val Arg 5	Asp Leu Ası	n Ala Leu Len 10	u Pro Ala Va 1	l Ser 5						
Ser Leu Gly G	ly Gly Gly 20	Gly Cys Gl	y Leu Pro Va 5	l Ser Gly Al 30	a Ala						
Gln Trp Ala P	ro Val Leu	Asp Phe Al	a Pro Pro Gl	y Ala Ser Al	a Tyr						

40

Gly Ser Leu Gly Gly Pro Ala Pro Pro Pro Ala Pro Pro Pro Pro

Pro Pro Pro Pro His Ser Phe Ile Lys Gln Glu Pro Ser Trp Gly Gly

60

					70					75					80
65													_		D)
Ala	Glu	Pro	His	Glu 85	Glu	Gln	Cys	Leu	Ser 90	Ala	Phe	Thr	Leu	95	Pne
Ser	Gly	Gln	Phe 100	Thr	Gly	Thr	Ala	Gly 105	Ala	Cys	Arg	Tyr	Gly 110	Pro	Phe
Gly	Pro	Pro 115	Pro	Pro	Ser	Gln	Ala 120	Ser	Ser	Gly	Gln	Ala 125	Arg	Met	Phe
Pro	Asn 130	Ala	Pro	Tyr	Leu	Pro 135	Ser	Cys	Leu	Glu	Ser 140	Gln	Pro	Thr	Ile
Arg 145	Asn	Gln	Gly	Tyr	Ser 150	Thr	Val	Thr	Phe	Asp 155	Gly	Ala	Pro	Ser	Tyr 160
Gly	His	Thr	Pro	Ser 165	His	His	Ala	Ala	Gln 170	Phe	Pro	Asn	His	Ser 175	Phe
Lys	His	Glu	Asp 180	Pro	Met	Gly	Gln	Gln 185	Gly	Ser	Leu	Gly	Glu 190	Gln	Gln
Tyr	Ser	Val	Pro	Pro	Pro	Val	Tyr 200	Gly	Cys	His	Thr	Pro 205	Thr	Asp	Ser
Cys	Thr 210		Ser	Gln	Ala	Leu 215		Leu	Arg	Thr	Pro 220	Tyr	Ser	Ser	Asp
Asn 225		Туг	Gln	Met	Thr 230		Gln	Leu	Glu	. Сув 235	Met	Thr	Trp	Asn	Gln 240
Met	Asn	. Lev	ı Gly	Ala 245		Leu	Lys	Gly	Met 250	Ala	Ala	Gly	Ser	Ser 255	Ser
Ser	Val	. Lys	3 Trp		Glu	Gly	Gln	Ser 265	Asn	His	Gly	· Ile	Gly 270	Tyr	Glu
Ser	Asp	275	n His	: Thr	Ala	Pro	280	e Leu	ı Cys	s Gly	Ala	Gln 285	туг	Arg	Ile
His	Th:		s Gly	/ Val	L Ph∈	295		/ Ile	e Glr	n Asp	0 Val	. Arg	Arg	Val	. Ser
Gl <sub>3</sub>		L Ala	a Pro	o Thi	Let 310		L Arg	g Sei	Ala	315	Glu 5	ı Thr	: Ser	Glu	1 Lys 320
Arg	g Pro	o Ph	e Met	Cys 32!		а Туг	r Pro	o Gly	y Cys 330	s Ası O	n Lys	s Arg	д Туг	335	e Lys
Le	u Se:	r Hi	s Le:		n Me	E His	s Sei	r Arg	g Ly:	s Hi	s Thi	r Gly	7 Glu 350	ı Lys	s Pro
ту	r Gl	n Cy 35	s As	p Ph	e Ly	s As	р Су: 36		u Ar	g Ar	g Phe	e Se:	r Arg	g Sei	r Asp



Gln Leu Lys Arg His Gln Arg Arg His Thr Gly Val Lys Pro Phe Gln 370 380

Cys Lys Thr Cys Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys Thr 385 390 395 400

His Thr Arg Thr His Thr Gly Lys Thr Ser Glu Lys Pro Phe Ser Cys 405 410 415

Arg Trp His Ser Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val 420 425 430

Arg His His Asn Met His Gln Arg Asn Met Thr Lys Leu His Val Ala 435 440 445

Leu

\\MAIN\\WPN\210121 - CORIXA\465-ap.doc/v10